



SEKOKINI SPRINGS EXISTING CONDITION DESCRIPTION

THE SEKOKINI SPRINGS FACILITY, LOCATED NEAR THE CONFLUENCE OF THE MIDDLE FORK AND NORTH FORK FLATHEAD RIVERS, WAS FORMERLY USED AS A PRIVATE RAINBOW TROUT FARM ON LAND OWNED BY THE US FOREST SERVICE (USFS). BONNEVILLE POWER ADMINISTRATION PURCHASED THE EXISTING SEKOKINI SPRINGS FACILITY TO REMOVE ALL RAINBOW TROUT, AND RAISE AND RELEASE WILD WESTSLOPE CUTTHROAT TROUT. THE NATURAL REARING FACILITY AT SEKOKINI SPRINGS IS PART OF THE HUNGRY HORSE MITIGATION PROGRAM, AND WILL BE OPERATED BY MONTANA FISH, WILDLIFE & PARKS (MFWP). MFWP OPERATES THE HATCHERY ON USFS LAND VIA A SPECIAL USE PERMIT.

THE EXISTING FACILITY IS LOCATED ON A TERRACE ABOVE THE MIDDLE FORK FLATHEAD RIVER. IT IS COMPRISED OF AN INTERCONNECTED SERIES OF SPRINGS, PONDS, OPEN CHANNELS AND CONVEYANCE AND CONTROL STRUCTURES. THERE ARE FOUR PRIMARY SPRINGS, WITH ADDITIONAL MINOR SPRINGS ALONG THE HILLSLOPE ON THE NORTH SIDE OF THE FACILITY. THE TOTAL ESTIMATED FLOW GENERATED BY THE FOUR SPRINGS IS BETWEEN 1.4 AND 8.0 CUBIC FEET PER SECOND (CFS). NINE OF THE ORIGINAL 11 PONDS REMAIN; TWO OF THE PONDS HAVE BEEN REPLACED WITH A CONSTRUCTED CHANNEL CARRYING FLOW FROM SPRING 4.

REACH 4 WILL SUPPLY BETWEEN 0.6 AND 2.0 CFS OF SPRING WATER TO THE REARING PONDS WITH A MEAN DAILY TEMPERATURE IN THE LOW-TO MID 40S°F. REACH 2 WILL SUPPLY BETWEEN 0.5 TO 3.0 CFS ORIGINATING FROM SPRINGS 2 AND 3 WITH A MEAN DAILY TEMPERATURE OF 51°F, RANGING FROM THE HIGH 50S°F FROM LATE JULY TO MID-SEPTEMBER, AND GRADUALLY DECREASING TO THE LOW 40S°F BY EARLY FEBRUARY. BEGINNING AT THE OUTLET OF POND 9, THE WATER IN REACH 2 WILL FLOW THROUGH PONDS 11 AND 10 VIA AN EXISTING CHANNEL TO THE PROPOSED WATER DISTRIBUTION MANIFOLD.

WORK COMPLETED TO DATE ON THE EXTERIOR INFRASTRUCTURE INCLUDES INSTALLATION OF AN INFILTRATION GALLERY DESIGNED TO CAPTURE WATER FROM SPRING 4 AND CONSTRUCTION OF AN OVERFLOW CHANNEL (REACH 4) THAT CAPTURES EXCESS FLOW FROM THE INFILTRATION GALLERY. THE INFILTRATION GALLERY CONSISTS OF A PERFORATED 12" PVC PIPE BURIED IN 3" DRAIN ROCK WITH AN INLET WATER LEVEL CONTROL STRUCTURE. THE INLET CONTROL STRUCTURE IS CONNECTED TO A BURIED 12" PVC PIPE THAT CURRENTLY TERMINATES IN A MANHOLE NEAR THE LOCATION OF THE PROPOSED WATER DISTRIBUTION MANIFOLD.

LEGEND

SPRING

POWER POLE

POND

FLOW DIRECTION

PIPES / CULVERTS

OPEN CHANNEL / DITCH

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EXISTING CONDITIONS

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